

MAY 1997

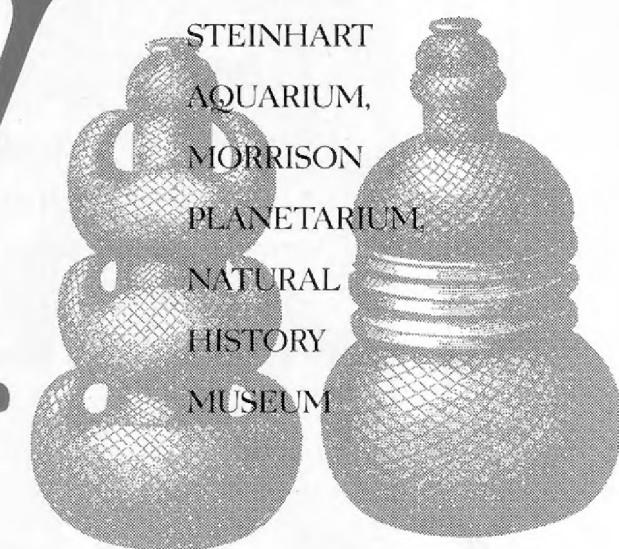


ACADEMY

NEWSLETTER OF THE CALIFORNIA ACADEMY OF SCIENCES

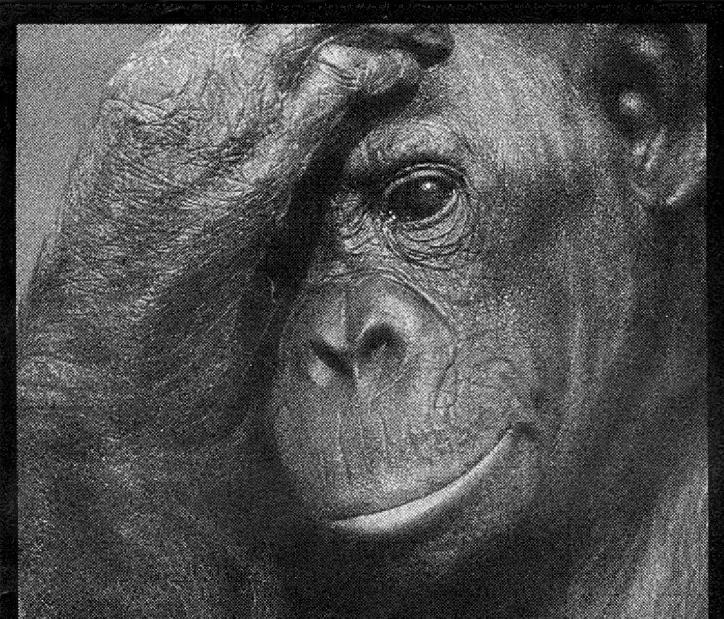


HOME OF
STEINHART
AQUARIUM,
MORRISON
PLANETARIUM,
NATURAL
HISTORY
MUSEUM



SPECIAL LECTURE

BONOBO



Courtesy of Frans Lanting.

THE FORGOTTEN APE

Traditional anthropological theories have presented humans as "killer apes" flourishing by means of aggression and violence. Behavioral models such as baboons and chimpanzees support this viewpoint, but the bonobo, one of the last large mammals discovered by science, is raising questions all over the previously accepted evolutionary map of our species.

Frans B. M. de Waal, C. H. Candler Professor of Primate Behavior and author of *Chimpanzee Politics* and *Peacemaking Among Primates*, has been studying the bonobo since the mid-1980s. Working with wildlife photographer Frans Lanting, he has recently published *Bonobo: The Forgotten Ape*, the first in-depth profile of the animal. Join him as he explains the bonobo's peaceful matriarchy founded on a code of sensitivity and affection. This unique egalitarian society offers a provocative alternative to the established model of human evolution, which emphasizes male-dominance and the inevitability of power struggles.

The lecture will be preceded by a cocktail reception at 6:30 p.m., and followed by a book-signing at 8:30 p.m.

Monday, June 9 — 7:30 p.m. (auditorium)
(reception 6:30 p.m.)

Lecture only:
\$6 members/\$10 nonmembers

Reception and Lecture:
\$36 members/\$45 nonmembers

This lecture is presented in collaboration with the L.S.B. Leakey Foundation. Please use the order form for tickets, or call (415) 750-7128.

MESSAGE FROM THE DIRECTOR



One of the few things we can truly count on is change. Even in the field of paleontology, which focuses its studies on events that occurred millions of years ago, that which we understand to be scientific "truth" changes almost continually.

As things change around us, whether we consider the vast environmental changes caused by human intervention, or changes in a typical museum visitor influenced by factors such as rapid advances in communications technologies, one thing is clear; The California Academy of Sciences is subject to the same forces of change that everyone and everything else is.

In the face of this change, the Academy has two choices; to adapt and hopefully to thrive, or to resist the changes around us and hope to survive. I do not hesitate to tell you that our choice is to thrive.

One thing that has not changed in the Academy's 143 year history is its



mission; to explore and explain the natural world. And that mission continues to act as our guiding force. To each new issue, problem, or opportunity that confronts us, the board and management of the Academy respond first by asking the question, "What action will allow us to best fulfill our scientific and educational mission?"

Change inevitably involves some sense of loss, particularly when space and resources are limited. However, when well managed, change can bring previously unimagined opportunities and benefit.

In the coming months and years, we will continue to look for the best ways to serve you and the scientific community and will try our best to keep you informed as to what we are planning and why. I hope that you will trust that the Academy's leadership and staff will continue to put the mission first in all decision making. However, as always, we welcome your comments and questions about the activities of the Academy.

DINOSAUR ADVENTURE

JUNE 7 THROUGH SEPTEMBER 1

They're baaaack! The Academy's summer experience brings roaring, stomping, and very realistic dinosaurs to the Academy in an exhilarating exhibit of prehistoric discovery. Enormous robotic dinosaurs provide the visual backdrop for a dynamic series of hands-on activities celebrating the search, study and science of dinosaurs. Visitors will become dinosaur detectives at the Academy's authentic Dinosaur Dig site, ferreting out fossils and tracking down clues to the sizes, shapes and behavior of Earth's great prehistoric land dwellers.

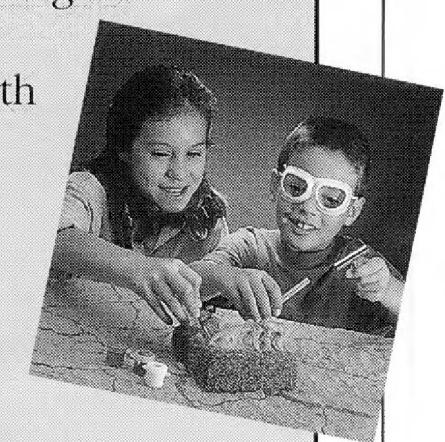


DINOSAUR ADVENTURE STORE

The Dinosaur Adventure Store opens June 7, with a full range of dinosaur equipment for explorers of all ages!

Kids fascinated by the exhibit will feel like paleontologists themselves with "I Dig Dinosaurs," an excavation kit with a replica of a fossilized skull for children to unearth with a hammer and chisel, the tools of the trade. Once excavated, the prize can be assembled, painted, and mounted, just like in a museum. Also for sale in the Adventure Store will be a full range of dino-related toys and gifts.

Present your membership card for a 10% discount on all purchases.



Charles Darwin: Live and in Concert

Cambridge historian James Moore has described Dr. Richard Milner's *Charles Darwin: Evolution of a Naturalist* as "the finest short biography of Darwin in existence." Milner's desire to "know Darwin the man" is what makes his approach unique and superlative.

Milner also brings this approach to his performances, which have been widely acclaimed by audiences of all ages in America, the United Kingdom, and Germany.

Described as a historian of science, author, songwriter, dramatist, and self-proclaimed "maverick anthropologist," he uses this vast array of talents to present Darwin not only as a scientist, but as a recognizable human being as well.

Milner blends music with his own lyrics and drama (often appearing as Darwin himself) into a dynamic one-man show which communicates Darwin's theories in an exciting and understandable way, and demonstrates how evolution transcended science to impact philosophy, law, art, literature, cinema, and popular culture.

Tuesday, June 3 — 7:30 p.m. (auditorium)

(book-signing 8:30 p.m.)

\$6 members/\$10 nonmembers



CRICKET KEEPING IN CHINA AND JAPAN

In Asia, the cricket is the subject of intimate pillow talk, avid collecting and lively gambling matches. *Insect Musicians & Cricket Champions* by Lisa Ryan celebrates the social history of the cricket and examines its long and intricate relationship with mankind.

In China and Japan, crickets are mythological symbols, artistic subjects and literary metaphors. Ryan will take an engaging look at how people of these countries have been influenced by these insect neighbors.

Please join us for this special lecture in the auditorium at 7:30 p.m. A book-signing will follow the lecture at 8:30 p.m.

Thursday, May 8 — 7:30 p.m. (auditorium)

\$6 members/ \$10 nonmembers

Discover the natural world through Special Lectures, which feature authors and experts speaking on a variety of natural history topics. Please use newsletter order form for tickets, or call (415) 750-7128.

A WORLD OF DIFFERENCE with Academy Travel

EXPLORING THE LESSER ANTILLES AND ORINOCO RIVER

WITH CARL FERRARIS ABOARD
MV YORKTOWN CLIPPER

This voyage encompasses areas in the Lesser Antilles and northern Venezuela generously endowed with natural beauty. The vast Orinoco basin lies between the coastal ranges of the Venezuelan Andes to the north, the Columbian Andes to the west and the Great Guiana Shield to the south and east. The Orinoco River is nearly 1,600 miles long, and the tour will follow its winding course for several days, coming face-to-face with complex ecosystems that are rich in exotic flora and fauna.

Along the way we will visit Bonaire's Marine Park and make a stop at Isla Caracas in Venezuela's Mochimas National Park, home to beautiful beaches and coral reefs.

The *Yorktown Clipper* is perfect for this voyage. Her shallow draft and great maneuverability allow her to enter areas big cruise ships could never consider.

December 22 through January 2

Cost: to come

For detailed itineraries on this tour, please call Deidre Kernan or Nancy Fuller at (415) 750-7348.

Herbst lectures take place at the Herbst Theatre, located at 401 Van Ness (at McAllister). All lectures take place at 8:00 p.m. To order tickets and for more information, please contact City Box Office at (415) 392-4400.

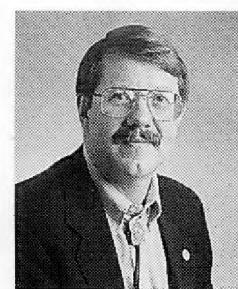
FRANK J. SULLOWAY

Science Historian

Frank J. Sulloway is known for his study of the influence of birth order on personality, and the profound consequences of sibling competition on families and society as a whole. The results of his study are published in *Born to Rebel: Birth Order, Family Dynamics, and Revolutionary Genius*. Sulloway has transformed our basic ideas of personality development, and offers a new understanding of how family dynamics cause siblings to differ.

Frank Sulloway is an M.I.T. Research Scholar, and author of *Freud: Biologist of the Mind*. He will speak as part of the Herbst Lecture Series on Monday, May 5.

ASTRONOMY



GALILEO MOON

On December 1, 1990, the Galileo probe was named for the four largest moons of Jupiter, which is considered the most massive moon in the solar system.

Galileo's experiments in the atmosphere, documented the domain ruled by Jupiter's magnetosphere and studied the large moon Io, which is covered in a volcano-riddled Io to freeze all in unprecedented detail. Midway through its mission, Galileo has already uncovered details about the satellites' deep interiors, a magnetic field around a small satellite, and studied the geology of worlds. Features similar to those found on Earth were found on the surface of Europa, suggesting a subsurface ocean which may still contain liquid water.

As part of the Benjamin Franklin Lecture series, the Morrison Planetarium Chief Scientist for the Galileo mission's findings will be presented on Tuesday, May 13 — 7:30 p.m. Tickets: \$3.

The Spring '97 B. Dean Lecture series continues with a family evening of storytelling with the author, June 24. Call 750-7141 for additional information.

PLANETS

MAY SKY

Sky Show/Description

Tales of a Comet
through September 7

Other Worlds
through June 15

Startalk

Neighbors in Space



Please note that on Memorial Day, there is no admission to the weekend schedule. Tickets can be purchased before the show (box office opens at 10 a.m.). Members must purchase their box office ticket before entering the theater. If you are 6 years old with you, please ask the box office for more information, please call 750-7141.

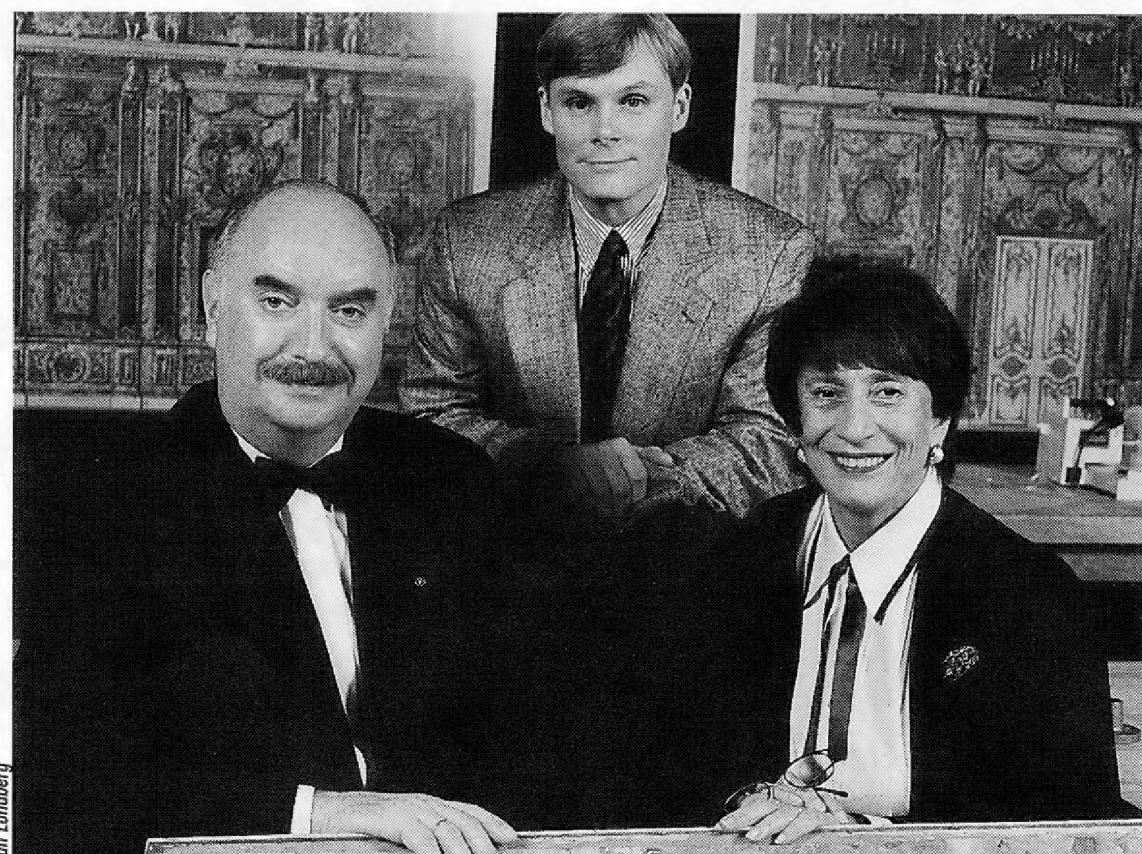
LECTURE

DR. C.J. PETERS Virologist, Author

Dr. C.J. Peters has been on the front lines for three decades in the biological war against lethally infectious viruses in South America, the United States and Africa. In his book *Virus Hunter*, he recounts his battle against these diseases, from investigating equine encephalitis to containing Ebola. Peters will offer his own perspective on the clash between biology and humanity, and on the threat emerging viruses pose to our species.

Dr. Peters is chief of the Viral Special Pathogens Branch at the Centers for Disease Control (CDC) in Atlanta. He has appeared on *CBS Evening News*, *NBC Nightly News*, *Larry King Live* and CNN. This lecture will be presented at the Herbst Theatre Thursday, May 15.

These lectures are presented as part of "Conversations at Herbst Theatre," a lecture series sponsored by the California Academy of Sciences and City Arts & Lectures through a grant from the Richard & Rhoda Goldman Fund.



Jan Lundberg
State Museum of St. Petersburg Director Ivan Sautov, American Museum of Natural History Entomologist and amber exhibit curator Dr. David Grimaldi, and California Academy of Sciences Executive Director Dr. Evelyn Handler welcomed guests to the opening of *Amber: Window to the Past*.

Y LECTURE

AT JUPITER: A NEW FOR AN OLD PLANET

per 7, 1995 Jupiter
new artificial moon.
orbiter spacecraft,
the discoverer of Jupiter's
conducting the most exten-
sive system to date.
have probed the Jovian
the nature of the huge
intense magnetic field,
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Ridges on Europa.

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discovered
moon,
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n Dean Lecture Series in
Dr. Torrence V. Johnson,
deo mission, will review
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es will conclude with a special
Dr. Amy Spaulding on Tuesday,
all information.

ARIUM

SHOWS

Weekday	Weekend
2 p.m.	2 & 4 p.m.
—	1 & 3 p.m.
—	12:00 p.m.
—	11:00 p.m.

May 26, shows will run according
be purchased one-half hour
10:30 a.m. on weekends) at the
of Sciences (\$2.50 adults/\$1.25
eem their passes for tickets at
eater. If you have a child under
cashier for a Child's Pass.
50-7141.

WILDLIFE CONSERVATION SERIES

NETWORKING WITH NATIONS TO BUILD WILDLIFE HIGHWAYS

Dr. Archie Carr III

The New World's best known cat species owes its sprawling range to the Central American land bridge, which spans from Patagonia to northern Canada. To protect this "biological highway," Dr. Archie Carr III, the Wildlife Conservation Society's regional coordinator for Mesoamerica and the Caribbean, pioneered a conservation strategy in 1987 called *Paseo Pantera*, or Path of the Panther. This path is an unbroken corridor of connected parks and protected areas for wildlife throughout Central America.

For the past ten years, Dr. Carr has worked with all Central American countries to keep the corridor a reality. Now called the Mesoamerica Biological Corridor, the program represents one of the world's most successful examples of multi-national cooperation in the name of conservation. The lecture is part of the Wildlife Talks Series, co-sponsored by the Academy of Sciences and the WCS. It will be preceded by a reception at 6:30 p.m., and will take place in the auditorium.

Tuesday, June 10 — 7:30 p.m.
(auditorium)

6:30 p.m. reception

Lecture only:
\$6 members/\$10 nonmembers

Reception and Lecture:
\$36 members/\$45 nonmembers

For more information,

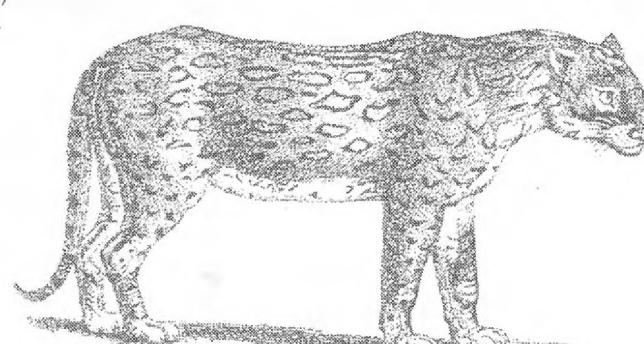
visit the WCS website

at www.wcs.org.

For tickets, use the

order form or call

415-750-7128.



ADULT EDUCATION

GENDER & THE BRAIN: MODERN STUDIES COMPARING FEMALES & MALES

Modern anatomical, physiological and imaging studies of the brain have revealed many differences between males and females of several vertebrate species, including humans. This presentation will range from subjects concerning brains of song birds to differences in language areas between men and women. Anatomical differences, hormonal influences and regulation, developmental events, pain perception and tolerance all are important components. Is the current literature convincing? Come explore this fascinating topic with Drs. Diane and Peter Ralston and draw your own conclusions based on the most recent scientific studies.

May 13 — 7 p.m. to 9 p.m.
\$12 members/\$15 nonmembers

NATURAL HISTORY & ARCHAEOLOGY OF LAKE COUNTY



The Clear Lake region is a diverse natural area with a long and intriguing history of human occupation. The plentiful plant and animal life around the lake have attracted settlers for hundreds of years, and the ancient rocks of the Coast Range basement and recent volcanic activity have provided the local inhabitants with important trading materials. See how the natives of the area, and the Californians who followed them, used the abundant natural resources of the region. Just in time for the spring bloom, instructors Jean DeMouthe and Barry Anderson will host this tour of a rich and colorful habitat.

May 16 — 18
Cost: \$175 members/\$190 non-members (double occupancy)
\$125 members/\$140 non-members (without accommodations)
(food and transportation not included)

BREEDING BIRDS OF PEPPERWOOD

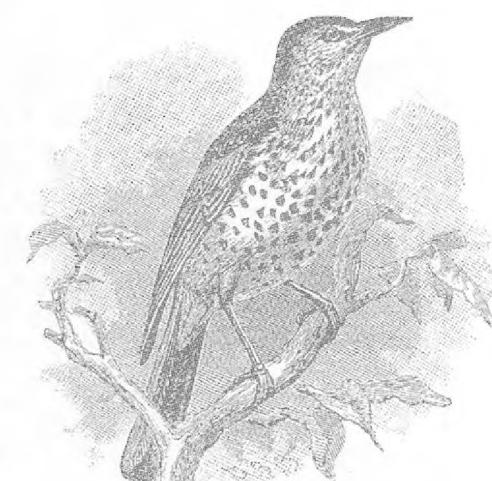
Mid-May is the perfect time to see and hear a dazzling array of birds at the peak of their breeding activity, and the Academy's lush 3,000 acre nature preserve in Sonoma County is the perfect place. Join instructor David Wimpfheimer for an exploration of the preserve's habitats, each home to specific groups of birds. An evening walk on Saturday will feature observation and discussion of nocturnal bird species, such as the owl.

9 a.m. Saturday, May 17 to 3 p.m. Sunday, May 18

Cost: \$95 members/\$110 nonmembers

Participants will need to provide their own sleeping bags, pads, transportation and food.

To register and for more information about these and other classes, use the order form or contact the adult and family education program at (415) 750-7100.



MAY

SUN	MON	TUE	WED	THU	FRI	SAT
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

- 3 Saturday
The History of British Town Crying, 1 p.m.
(Traditional Arts)
- 8 Thursday
Cricket Keeping In China and Japan, 7:30 p.m.
(Special Lecture)
- 10 Saturday
Scottish Tartan Weaving,
1 p.m. (Traditional Arts)
- 13 Tuesday
Galileo at Jupiter, 7:30 p.m.
(B.Dean Lecture)
- 14 Wednesday
Members Open House,
6 p.m.
- 17 Saturday
Welsh Wheat Weaving,
1 p.m. (Traditional Arts)
- 18 Sunday
Robert Henry Johnson Dance Company, 1 p.m.
(Young Audiences)
- 24 Saturday
Scottish Pipe Band-Dunvegan, 1 p.m.
(Traditional Arts)
- 26 Monday
Weekend Sky Show schedule
in effect for Memorial Day
- 31 Saturday
English Morris Dancing,
1 p.m. (Traditional Arts)

FUTURE DATES TO REMEMBER

June 7 Dinosaur Adventure opens;
June 10 Networking with Nations (WCS); **June 11** Human Origins, with Blake Edgar (Members Lecture)

VISITOR INFORMATION

Special Exhibitions: "Folk Toys: The Playful Arts of Japan," through June • "Rugs of Tee Nos Pos; Jewels of the Navajo Loom," through September 27. • **Feeding Times:** Fish Roundabout, 2 p.m.; Penguins, 11:30 a.m. & 4 p.m. • **Guided Tours:** Free one-hour highlight tours daily. • **Laserium Shows:** Thu.- Sun. evenings. • **Free Day:** First Wed. of each month. • **Hours:** Open every day of the year. Winter hours 10 a.m.- 5 p.m. Summer hours (Memorial Day weekend to Labor Day) 9 a.m.- 6 p.m. • **Information:** Hotline (415) 750-7145, World Wide Web site <http://www.calacademy.org>



California Academy of Sciences

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San Francisco, CA 94118-4599

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ADULT EDUCATION	Qty/Members	Qty/Nonmembers	Total	SPECIAL LECTURES	Qty/Members	Qty/Nonmembers	Total
Please call (415) 750-7100 for availability.				Cricket Keeping in China and Japan / May 8	X \$6	X \$10	=
Gender and the Brain / May 13	X \$12	X \$15	=	Charles Darwin: Live and In Concert / June 3	X \$6	X \$10	=
Natural History & Archaeology of Lake County / May 16-18	X \$175	X \$190	=	Bonobo: The Forgotten Ape / June 9	X \$6	X \$10	=
Double occupancy	X \$125	X \$140	=	Lecture only	X \$6	X \$10	=
Without accommodations	X \$95	X \$110	=	Lecture and reception	X \$36	X \$45	=
Breeding Birds of Pepperwood / May 17-18				SPECIAL LECTURES	Qty/Members	Qty/Nonmembers	Total
				Networking with Nations / June 10	X \$6	X \$10	=
				Lecture only	X \$36	X \$45	=
				Lecture and reception			
B. DEAN ASTRONOMY LECTURE SERIES	Quantity	Total		DONATIONS	Qty/Members	Qty/Nonmembers	Total
Galileo at Jupiter / May 13	X \$3	=		<input type="checkbox"/> I would like to support the Academy of Sciences with a donation. \$ _____			
ESTATE PLANNING SEMINAR	Quantity	Total		<input type="checkbox"/> Please send me information about life income gifts and bequests to the Academy			
Sophisticated Estate Planning / May 20	X \$5	=					

GIFT MEMBERSHIP FORM

I wish to give a gift membership to: _____
Address _____ City _____
State _____ Zip _____ Phone () _____
\$45 Individual \$60 Family of Grandparent
\$40 Dual Senior \$35 Senior \$125 Curators Circle
Payment enclosed: _____

TOTAL PAYMENT ENCLOSED \$ _____

Check (make payable to CAS)
 Visa MasterCard American Express (\$10 minimum on credit card orders)
Card Number _____ Exp. Date _____
Daytime Phone _____

Mail payment and order form to: Membership Office, Ticket Services, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-4599
Include a self-addressed, stamped envelope for each series to which you subscribe.
No refunds/exchanges.

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TRADITIONAL ARTS

In collaboration with Britain Meets the Bay, a three-month festival celebrating U.K. Bay Area friendship and opportunity, the Traditional Arts Program is dedicating the month of May to British folkways.

THE HISTORY OF BRITISH TOWN CRYING with Mr. Redmond O'Colonies

Town crying has diminished over the centuries with the advent of media in its many forms, but has yet to expire. Join Redmond O'Colonies in his presentation of the history of this tradition in Britain and throughout the world.

May 3 — 1 p.m.

SCOTTISH TARTAN WEAVING with Ms. Jan Crook

Using a small treadle loom, textile artist Jan Crook demonstrates the weave structure of Scottish highland tartans, and discusses the historical development of clan patterns.

May 10 — 1 p.m.

WELSH WHEAT WEAVING with Ms. Jan Southworth

Poor soil and hilly terrain make farming in Wales especially challenging. Perhaps for that reason, legends of the "corn spirit" abound and Wales is often called the home of British folklore. The provinces or counties of Wales are known as "bor-

ders", and the Welsh Border Fan was a traditional harvest symbol for all the counties. Jan Southworth demonstrates the construction of both the Welsh Fan and the Mordiford, or sweetheart love token.

May 17 — 1 p.m.

SCOTTISH PIPE BAND-DUNVEGAN with Mr. Ozzie Reid

Mr. Ozzie Reid leads his Scottish pipe band, Dunvegan, donned in clan tartans in a presentation of Highland music.

May 24 — 1 p.m.

ENGLISH MORRIS DANCING with Berkeley Morris

Berkeley Morris performs dances that originate largely from the village of Leafield, England. The style of dance for which the ensemble is known is called Cotswold. Come celebrate the seasonal rituals associated with the arrival of spring!

May 31 — 1 p.m.



Explore cultural traditions from around the world in these one-hour presentations held Saturdays in the auditorium. Free after general admission. Call (415) 750-7165 for more information.

SEMINAR: THE CALIFORNIA ACADEMY OF SCIENCES PRESENTS

SOPHISTICATED ESTATE PLANNING: BEYOND THE BASICS



Clare Springs, J.D. and William Hoehler, J.D. lead an advanced estate planning seminar for Academy members in May.

This seminar will explore estate planning ideas that go beyond the basics of wills and trusts, delving into advanced estate planning concepts which you may have seen in the news recently. For example, on December 22, the New York Times ran an article which stated "...the Federal estate tax has become so easy to avoid that some experts believe that much of it is voluntary, at least for those who start planning early."

Our experts will explore that statement and evaluate the pros and cons of planning tools like these: Qualified Personal Residence Trusts, Family Limited Partnerships, Irrevocable Life Insurance Trusts, Private Annuities, and Charitable Remainder Trusts.

Our speakers are two highly qualified estate planning experts, Clare Springs, J.D., partner of Springs, Rivin, Detwiler, Dudnick and Stikker; and William Hoehler, J.D., partner of Pillsbury, Madison & Sutro. Clare is a member of the Academy Board of Trustees, and both have presented popular estate planning programs for Academy members.

This seminar is designed for Academy members who are 50 years or older and who understand the basics of estate plans, including wills, living trusts and forms of property ownership. To order tickets please respond by May 10 and use the order form. For more information, please call 750-7216.

Tuesday, May 20 — 4:30 to 6:30 p.m. Cost: \$5 (Attendance is free for Eastwood Associates.)

WHOM TO CALL Academy Info, 750-7145 • Academy Store, 750-7410 • Aquarium, 750-7247 • Biodiversity Center, 750-7361 • Development Office, 750-7216 • Docent Tours, 750-7155 • Education Office, 750-7100 • Group Admissions, 750-7159 • Job Hotline, 750-7333 • Laserium, 750-7138 • Special Lectures, 750-7128 • Library, 750-7102 • Membership Office, 750-7111 • Planetarium, 750-7141 • Planned Giving, 750-7216 • Receptionist, 221-5100 • Security, 750-7000 • Travel, 750-7348 • Volunteer Services, 750-7154 • Weekend Information, 750-7375

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DEDICATED TO SCIENTIFIC RESEARCH & EDUCATION, INSPIRING RESPECT FOR THE NATURAL WORLD